

**METHOD AND APPARATUS FOR PROVIDING MAGNETOSTRICTION
CONTROL IN A FREELAYER OF A MAGNETIC MEMORY DEVICE**

ABSTRACT

5 A method and apparatus for providing magnetostriction control in a free layer of a magnetic memory device is disclosed. The same target compositions for the free layers may be used, but the relative thickness values are modified to obtain a desired magnetostriction without a change in the mageneteristance ratio, $\Delta R/R$.